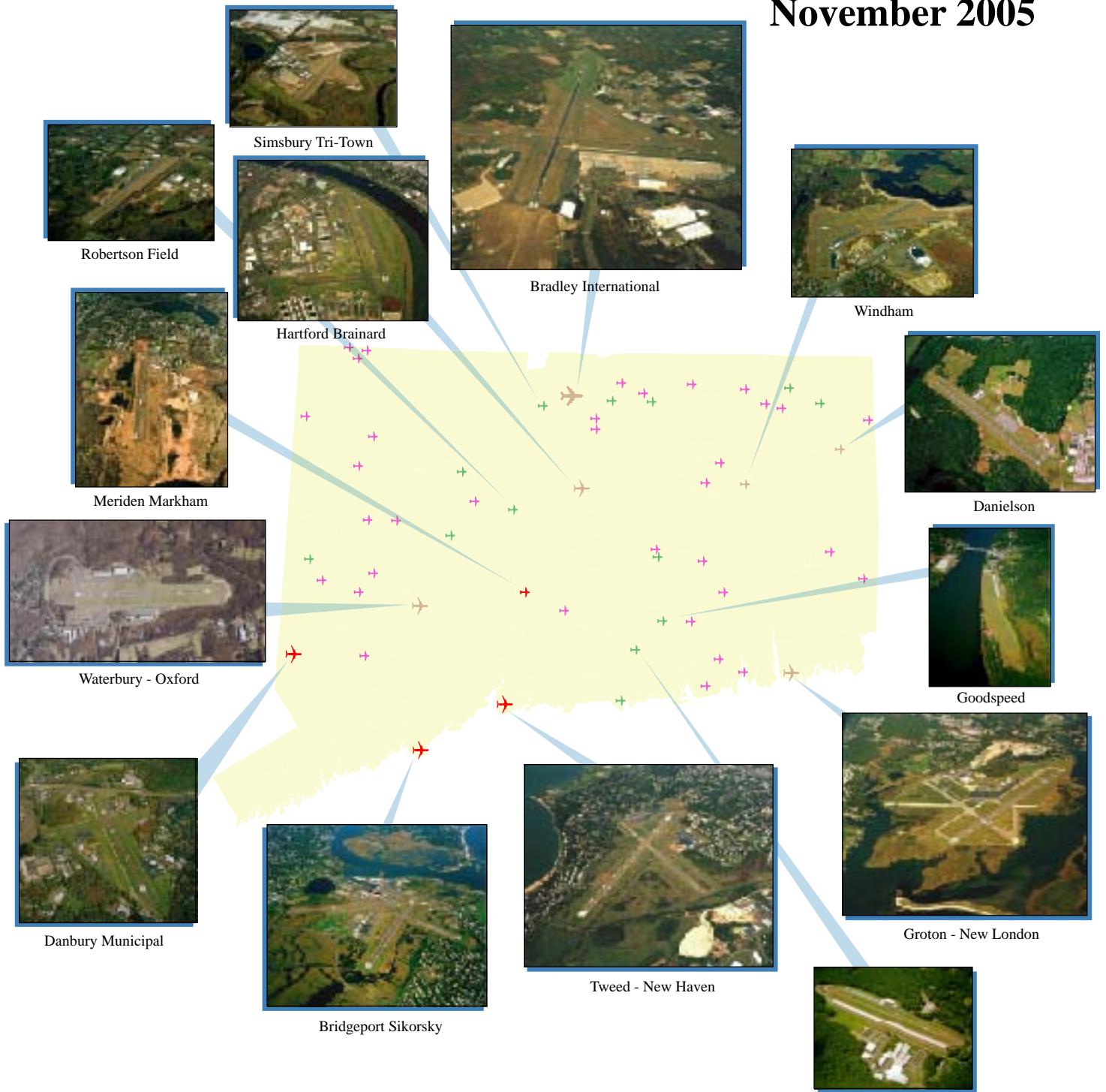


Draft Connecticut Statewide Airport System Plan

November 2005



Prepared by the
Office of Airport Planning
Bureau of Policy and Planning
Connecticut Department of Transportation

Table of Contents

Section	Page
Executive Summary	
ES.1 - Purpose and Need	ES-1
ES.2 - System Planning.....	ES-2
ES.3 - Overview.....	ES-2
ES.4 - Runway Safety Area (RSA).....	ES-5
ES.5 - Security	ES-6
ES.6 - Forecasting.....	ES-6
ES.7 - Annual Enplanements	ES-7
ES.8 - Based Aircraft	ES-7
ES.9 - Aircraft Operations	ES-9
ES.10 - Status of Connecticut's Airport System	ES-9
ES.11 - Funding	ES-10
ES.12 - Recommendations.....	ES-11
ES.13 - Strategic Plan	ES-12
ES.14 - In Closing.....	ES-12

Chapter 1 - Study Design and Objective

1.1 - Introduction	1-1
1.2 - Purpose and Need	1-1
1.3 - Summary of Changes Since Last Plan.....	1-1
1.4 - Goals of Update	1-2
1.5 - Airport System Planning	1-2
1.6 - The Connecticut System.....	1-3
1.6.1 - Historical Overview.....	1-3
1.6.2 - Overview of the Existing System	1-6
1.6.3 - Economic and Security Issues	1-8

Chapter 2 - Inventory of System Airports

2.1 - Introduction	2-1
2.1.1 - Airport Reference Code.....	2-1
2.1.2 - Runway Safety Areas	2-3
2.1.3 - Airspace	2-4
2.1.4 - Service Area	2-6
2.1.5 - Airport Role.....	2-7
2.1.6 - Zoning / Land Use	2-9
2.2 - State Owned Airports	2-10
2.2.1 - Bradley International Airport (BDL).....	2-10
2.2.2 - Hartford-Brainard Airport (HFD).....	2-13
2.2.3 - Groton-New London Airport (GON)	2-15
2.2.4 - Waterbury-Oxford Airport (OXC)	2-17

Section	Page
2.2.5 - Windham Airport (IJD)	2-18
2.2.6 - Danielson Airport (5B3).....	2-20
2.3 - Municipally-Owned Airport Facilities	2-21
2.3.1 - Tweed-New Haven Regional Airport (HVN)	2-21
2.3.2 - Igor I. Sikorsky Memorial Airport (BDR).....	2-23
2.3.3 - Danbury Municipal Airport (DXR).....	2-25
2.3.4 - Meriden-Markham Municipal Airport (MMK)	2-26
2.4 - Privately Owned Facilities Open to the Public.....	2-28
2.4.1 - Chester Airport (3B9).....	2-28
2.4.2 - Goodspeed Airport and Seaplane Base (42B)	2-29
2.4.3 - Ellington Airport (7B9)	2-29
2.4.4 - Skylark Airpark (7B6).....	2-30
2.4.5 - Robertson Airport (4B8).....	2-30
2.4.6 - Simsbury Tri-Town Airport (4B9)	2-31
2.4.7 - Mountain Meadow Airport (22B).....	2-31
2.4.8 - Woodstock Airport (64CT)	2-32
2.4.9 - Waterbury-Plymouth Airport (N41).....	2-32
2.4.10 - Griswold Airport (N04)	2-33
2.4.11 - Toutant Airport (C44).....	2-33
2.4.12 - Candlelight Farms Airport (11N)	2-33
2.4.13 - Salmon River Airfield (9B8)	2-34
2.4.14 - Stonington Airpark (CT80)	2-34
2.5 - Closed Airports.....	2-34
2.6 - Restricted Landing Areas Airports (RLA's)	2-36
2.7 - Influential Airport Located in Surrounding States	2-38
2.7.1 - New York Airports	2-38
2.7.1.1 - Dutchess County Airport (POU)	2-38
2.7.1.2 - Weschester County Airport (HPN).....	2-39
2.7.1.3 - Stewart International Airport (SWF)	2-40
2.7.1.4 - Sky Acres (44N)	2-41
2.7.2 - Massachusetts Airports.....	2-41
2.7.2.1 - Barnes Municipal Airport (BAF)	2-41
2.7.2.2 - Northampton Airport (7B2).....	2-42
2.7.2.3 - Worcester Regional Airport.....	2-43
2.7.2.4 - Great Barrington Airport (GBR)	2-43
2.7.3 - Rhode Island Airports.....	2-44
2.7.3.1 - Theodore Francis (T.F.) Green Airport (PVD).....	2-44
2.7.3.2 - Westerly State Airport (WST)	2-45

Chapter 3 - Statewide Forecasts

3.1 - Introduction	3-1
3.2 - Economic Growth and Population.....	3-1
3.2.1 - Statewide Population and Housing Projections.....	3-1
3.2.2 - Economic Status of Connecticut.....	3-2

Section	Page
3.3 - Overview of the Aviation Industry	3-2
3.4 - Forecasting Methods	3-4
3.5 - Forecasts for State Owned Airports.....	3-6
3.5.1 - Bradley International Airport	3-6
3.5.2 - Groton-New London Airport.....	3-9
3.5.3 - Hartford-Brainard Airport	3-11
3.5.4 - Waterbury-Oxford Airport	3-12
3.5.5 - Windham Airport.....	3-13
3.5.6 - Danielson Airport	3-14
3.6 - Municipally Owned Airports.....	3-16
3.6.1 - Tweed-New Haven Regional Airport.....	3-16
3.6.2 - Igor I. Sokorsky Memorial Airport	3-19
3.6.3 - Danbury Municipal Airport	3-21
3.6.4 - Meriden-Markham Municipal Airport.....	3-23
3.7 - Privately Owned Airports Open for Public Use	3-24
3.8 - Summary of Forecasts	3-25
3.8.1 - Commercial Service	3-25
3.8.2 - Based Aircraft.....	3-25
3.8.3 - Total Annual Aircraft Operations.....	3-26

Chapter 4 - Capacity / Demand Analysis

4.1 - Calculating Airside Operational Capacity	4-1
4.1.1 - Airfield Layout and Configuration	4-2
4.1.2 - Weather.....	4-3
4.1.3 - Aircraft Fleet Mix.....	4-4
4.1.4 - Touch and Go Operations.....	4-4
4.2 - Capacity for Based Aircraft.....	4-4
4.3 - Airfield Capacity Adequacy Analysis	4-5
4.3.1 - Operational Capacity	4-5
4.3.2 - Based Aircraft Adequacy.....	4-9
4.4 - Operational Capacity Enhancement Strategies.....	4-10
4.4.1 - Airside Facilities.....	4-10
4.4.2 - Demand Management.....	4-10
4.5 - Summary.....	4-11

Chapter 5 - Funding

5.1 - Overview of FAA Funding.....	5-1
5.2 - Reauthorization of FAA Funding	5-4
5.3 - Funding for Connecticut Airports	5-4
5.4 - Other States	5-5

SectionPage

Chapter 6 - The State of the Airport System in Connecticut

6.1 - Status of Connecticut's Airport System.....	6-1
6.1.1 - Air Carrier Status.....	6-1
6.1.2 - Operational Status	6-2
6.1.3 - Based Aircraft Status	6-2
6.1.4 - Location and Coverage of Airports in the System	6-3
6.2 - Scenarios That May Impact the System	6-3
6.2.1 - Airport Closures	6-4
6.2.2 - Modification of Operations at an Airport	6-4
6.2.3 - Major Change in Scheduled Commercial Service.....	6-6
6.2.4 - Changes in Policy	6-7

Chapter 7 - Recommendations

7.1 - Introduction	7-1
7.2 - Recommendations for the National Plan of Integrated Airport Systems (NPIAS)	7-1
7.1.2 - Capacity	7-2
7.1.3 - Scheduled Commercial Service Change.....	7-3
7.1.4 - Changes in Policy	7-4
7.1.5 - Specific Examples of Problems	7-4
7.1.6 - Safety	7-7
7.1.7 - Land Use / Zoning	7-7
7.1.8 - Funding.....	7-8
7.1.9 - Public Awareness	7-9
Appendix A - Airport Photos	A-1

List of Tables

<u>Table</u>	<u>Page</u>
Table ES.1 - Public Use Airports in Connecticut	ES-3
Table ES.2 - Private use Airports in Connecticut.....	ES-4
Table ES.3 - Economic Impact of State and Municipal Airports	ES-4
Table ES.4 - Influential Airports Located in Surrounding States	ES-5
Table ES.5 - Non-Conforming Runway Safety Area Dimensions	ES-6
Table ES.6 - Enplanements.....	ES-7
Table ES.7 - Projected Increase in Annual Operations and Based Aircraft	ES-8
Table ES.8 - Airports Approaching or Exceeding 50 Percent Capacity in 2025....	ES-9
Table ES.9 - Commercial Service Airports - Entitlement Monies (FY 2005).....	ES-10
Table 2.1 - Public Use Airports in Connecticut.....	2-2
Table 2.2 - Airport Reference Codes	2-3
Table 2.3 - Runway Safety Area Dimensions.....	2-4
Table 2.4 - Airspace Class	2-6
Table 2.5 - Restricted Landing Area Airports in Connecticut.....	2-37
Table 2.6 - Influential Airports Located in Surrounding States.....	2-46
Table 3.1 - Annual Aircraft Operations at Bradley International Airport	3-6
Table 3.2 - Based Aircraft at Bradley International Airport.....	3-9
Table 3.3 - Annual Aircraft Operations at Groton-New London Airport.....	3-10
Table 3.4 - Based Aircraft at Groton-New London Airport	3-10
Table 3.5 - Based Aircraft at Hartford-Brainard Airport	3-11
Table 3.6 - Annual Aircraft Operations at Hartford-Brainard Airport	3-12
Table 3.7 - Based Aircraft at Waterbury-Oxford Airport.....	3-12
Table 3.8 - Annual Aircraft Operations at Waterbury-Oxford Airport	3-13
Table 3.9 - Based Aircraft at Windham Airport	3-14
Table 3.10 - Annual Aircraft Operations at Windham Airport.....	3-14
Table 3.11 - Based Aircraft at Danielson Airport.....	3-15
Table 3.12 - Annual Aircraft Operations at Danielson Airport	3-15
Table 3.13 - Annual Aircraft Operations at Tweed-New Haven Regional Airport.	3-16
Table 3.14 - Based Aircraft at Tweed-New Haven Regional Airport	3-19
Table 3.15 - Based Aircraft at Sikorski Memorial Airport.....	3-20
Table 3.16 - Annual Aircraft Operations at Sikorski Memorial Airport	3-21
Table 3.17 - Based Aircraft at Danbury Municipal Airport.....	3-22
Table 3.18 - Annual Aircraft Operations at Danbury Municipal Airport	3-22
Table 3.19 - Based Aircraft at Meriden Municipal Airport.....	3-23
Table 3.20 - Annual Aircraft Operations at Meriden Municipal Airport	3-24
Table 3.21 - Summary of Annual Enplanements.....	3-25
Table 3.22 - Based Aircraft Forecasts.....	3-27
Table 3.23 - Annual Operations Forecasts.....	3-28
Table 4.1 - Projected Increase in Based Aircraft	4-5
Table 4.2 - Airport Capacity - 2004.....	4-6
Table 4.3 - Airport Capacity - 2025.....	4-7

<u>Table</u>	<u>Page</u>
Table 4.4 - Airport Exceeding 50 Percent Capacity	4-8
Table 4.5 - Average Aircraft Delay	4-9

List of Figures

<u>Figure</u>	<u>Page</u>
Figure 2.1 - Airport Location Map	2-47
Figure 2.2 - Typical Airspace Diagram	2-48
Figure 2.3 - BDL Cargo Service Area	2-11
Figure 2.4 - Bradley International Airport Commercial Service Area	2-49
Figure 2.5 - Bradley International Airport General Aviation Service Area	2-50
Figure 2.6 - Hartford-Brainard Airport General Aviation Service Area	2-51
Figure 2.7 - Groton-New London Airport General Aviation Service Area.....	2-52
Figure 2.8 - Waterbury-Oxford Airport General Aviation Service Area.....	2-53
Figure 2.9 - Windham Airport General Aviation Service Area.....	2-54
Figure 2.10 - Danielson Airport General Aviation Service Area	2-55
Figure 2.11 - Tweed-New Haven Airport Commercial Service Area	2-56
Figure 2.12 - Tweed-New Haven Airport General Aviation Service Area	2-57
Figure 2.13 - Igor I. Sikorsky Memorial General Aviation Service Area	2-58
Figure 2.14 - Danbury Airport General Aviation Service Area.....	2-59
Figure 2.15- Meriden-Markham Airport General Aviation Service Area	2-60
Figure 3.1 - Revenue Passenger Miles.....	3-3
Figure 3.2 - Enplanement Market Share Analysis for Bradley International Airport.....	3-7
Figure 3.3 - Cargo Forecasts Bradley International Airport.....	3-8
Figure 3.5 - Enplanement Market Share Analysis for Tweed-New Haven Regional Airport	3-17
Figure 6.1 - General Aviation Coverage.....	6-9
Figure 6.2 - Commercial Service Coverage.....	6-10